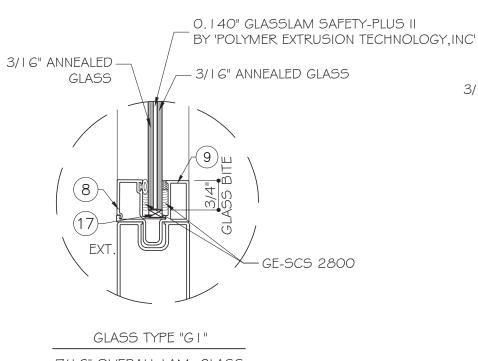
SERIES FD 2100 OUTSWING FRENCH DOOR LARGE MISSILE IMPACT (LMI)



INSTRUCTIONS: USE CHARTS AS FOLLOWS

1/4" AIR SPACE-

(16)

3/16" TEMP. GLASS-

DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16/ASCE 7-22 STANDARD

GLASS TYPE "G2"

I" OVERALL INSUL. LAM. GLASS

STEP 2: SEE TYPICAL ELEVATION ON SHEET E1 \$ E2 FOR MAXIMUM SIZE AND DESIGN LOAD.

3/16" ANNEALED GLASS

3/16" ANNEALED GLASS

0.205" GLASSLAM SAFETY-PLUS II

GE-SCS 2800

NOTE:

(3 SEC. GUSTS).

BY 'POLYMER EXTRUSION TECHNOLOGY, INC'

STEP 3: SEE ANCHOR TYPE ON SHEET A I . SEE SHEET E I \$ E2 FOR ANCHOR SPACING.

STEP 4: THE LOWEST VALUE RESULTING FROM STEPS 2 THAT EXCEED THE DESIGN WIND PRESSURE DETERMINED THRU STEP I SHALL APPLY TO ENTIRE SYSTEM.

GLASS COMPLIES WITH ASTM E1300-09

- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE
 CONDITIONS DEVIATE FROM THE P.E.D.
- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS
- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- SITE SPECIFIC PROJECTS SHALL BE STIE SPEUIFIC PROJECTS SHALL BE
 PREPARED BY A FLORIDA REGISTERED
 ENGINEER OR ARCHITECT WHICH WILL
 BECOME THE ENGINEER OF RECORD
 (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF
- THIS P E D. SHALL BEAR THE DATE AND THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FLORIDA APPROVAL

29477.

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING

F.H. - FRAME HEIGHT

F.W. - FRAME WIDTH

- WITH

- WITHOUT W/O

- ON CENTER

SECTION NUMBER

YIPING WANG PIE ARIDA REGISTRATIO GL #55983 C.A.N. 88877 "INFSSIONALIN September 26th, 2023 ENGINEERING MCY

ID DOORS, **76TH** DOWS Š

1356 N \circ ž

AS SHOW

AD19-16

COVER

01 OF 08

SHEET NUMBER

- MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH

7/16" OVERALL LAM. GLASS

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7 TH EDITION FLORIDA BUILDING CODE (2020)/8 TH EDITION FLORIDA BUILDING CODE (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

DOORS RATED FOR LARGE MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED.

- THESE DOORS ARE APPROVED FOR AIR AND WATER INFILTRATION.

- ANCHORS SHALL BE AS LISTED. SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

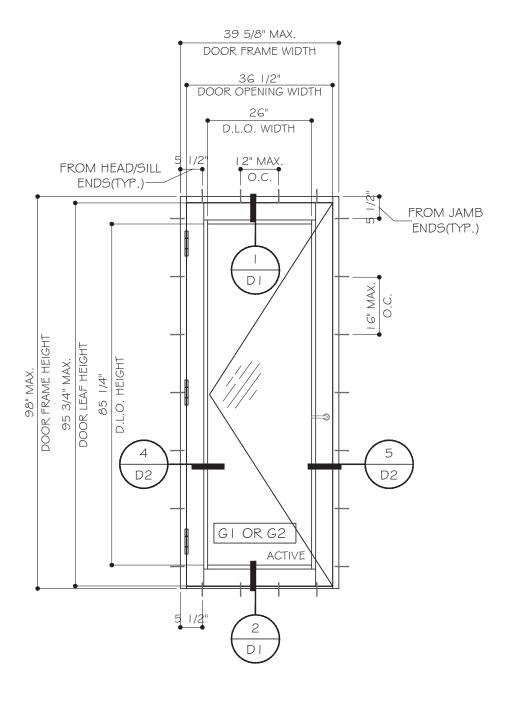
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/8TH EDITION FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.

- METAL STRUCTURES NOT BY EMC WINDOWS AND DOORS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

- ULTIMATE LOAD OBTAINED FROM ASCE 7-1 G/ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.

SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

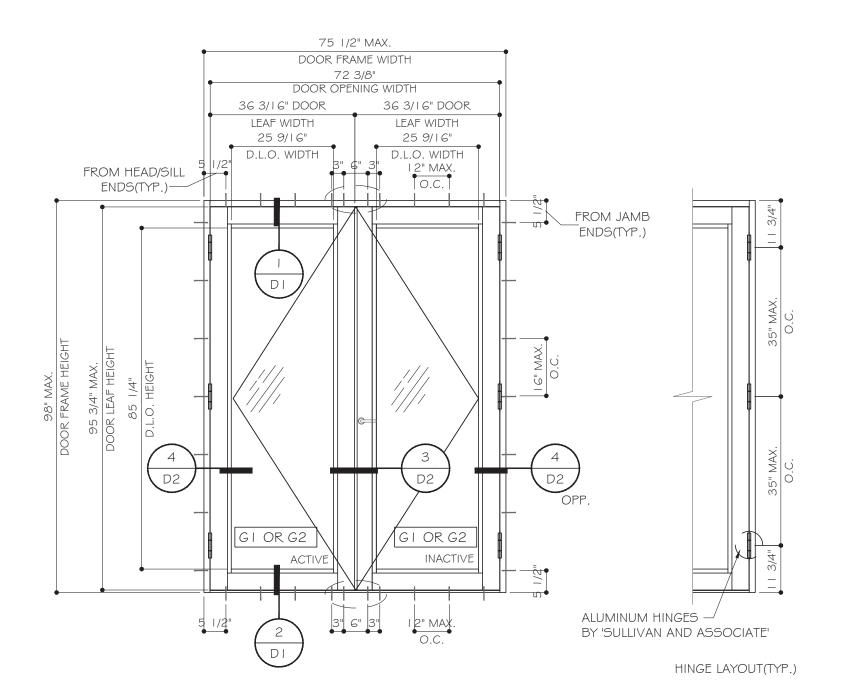




TYPICAL EXTERIOR ELEVATION

MAX.DESIGN LOAD (FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC

> + 65 PSF - 65 PSF



DOUBLE DOOR W/O SIDELITE (XX)

TYPICAL EXTERIOR ELEVATION

MAX.DESIGN LOAD (FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC

+ 65 PSF - 65 PSF FL # 29477.



				2023 FBC	Description	
				James	Drawn By	
				09.25.2023	Date	
				R3	Rev. No.	
	Drawn Date 08/08/2019		A	Scale AS SHOWN		
	DRAWING NO.					

EMC WINDOWS AND DOORS, LL 1356 W. 76TH STREET

OUTSWING

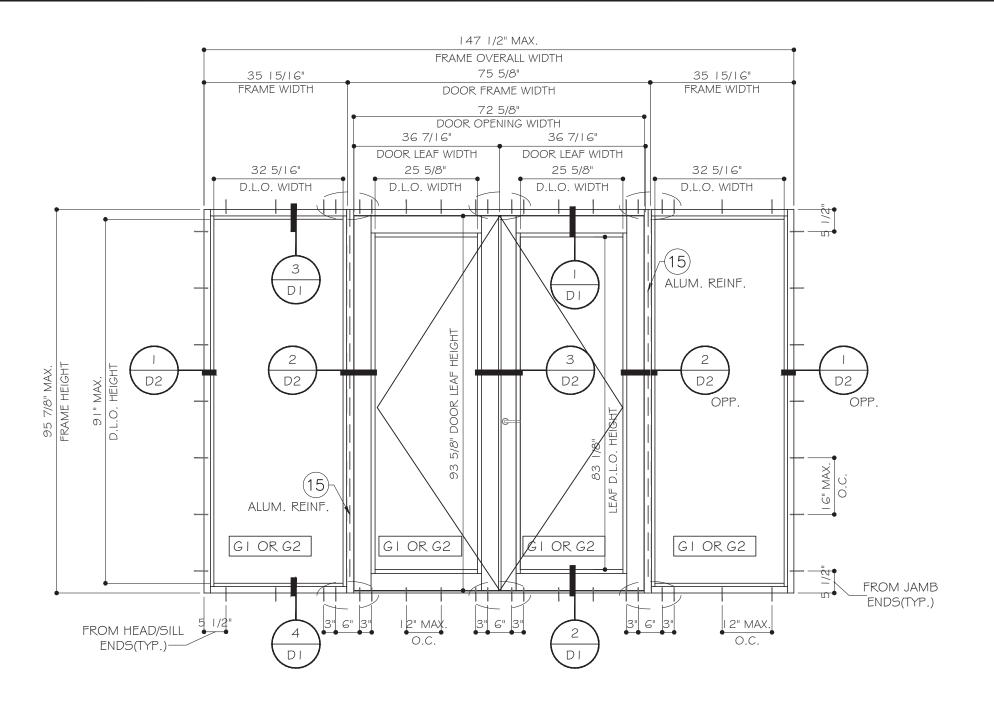
MCY ENGINEERING, INC GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301 "MIRAMAR, FL. 33027

AD19–16

E1

02 OF 08



TYPICAL EXTERIOR ELEVATION W/ SIDELITE (OXXO)

	MAX.DESIGN LOAD						
	(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC						
	7,6 + 2,7,111125 5 + + 5 6						
UNREINF. +/- 60 PSF							
	REINF.	+/- 65 PSF					

FLORIDA APPROVAL: FL # 29477.



C.A.N. 28677
S
No S
* 11 * 1
OF WE
STAN STAN
TO PLOR THE
SSIONALIHIN

EMC WINDOWS AND DOORS, LLC.
1356 W. 76TH STREET
HIALEAH, FL 33014
TEL. (305) 283-6280 EMCWindowsDoors@gmail.com

MCY ENGINEERING, INC. GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301 MIRAMAR, FL. 33027 D

Drawn Date 08/08/2019 Scale AS SHOWN

AD19-16

E2 Sheet No.

03 OF 08

TYPICAL ANCHOR TYPES: SEE ELEVATIONS FOR SPACING

TYPE "A": 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)

INTO WOOD STRUCTURE WITH I 1/2" MIN. EMBED

THRU I BY OR 2BY WOOD BUCKS INTO CONCRETE

WITH I 3/4" MIN. EMBED

THRU IBY OR 2BY WOOD BUCKS

WITH I 1/4" MIN. EMBED INTO HOLLOW BLOCK(JAMB ONLY) WITH I 3/4" MIN. EMBED INTO GROUT FILLED BLOCK

DIRECTLY INTO CONCRETE (3000 psi MIN.) WITH I 1/2" MIN. EMBED INTO CONCRETE

TYPE "B": 1/4" TEKS OR SELF DRILLING SCREW(GRADE 5) (Fu= 120 KSI, Fy=92 KSI) INTO METAL STRUCTURE

> STEEL: 1/8" THK. MIN. (Fy=36 KSI MIN.) ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)

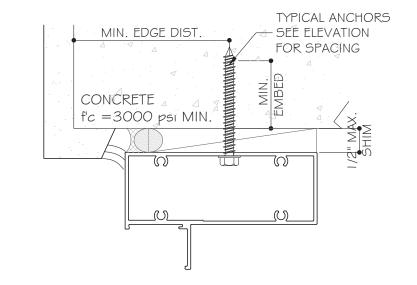
(STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED) (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

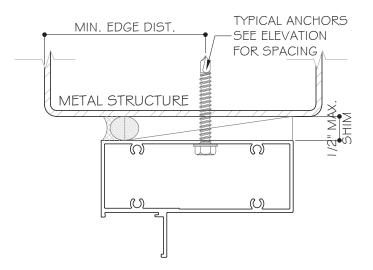
TYPICAL ANCHOR EDGE DISTANCE: INTO CONCRETE OR GROUT FILLED & MASONRY = 2 1/2" MIN. INTO WOOD STRUCTURE = 1-1/2" MIN. INTO METAL STRUCTURE = I " MIN.

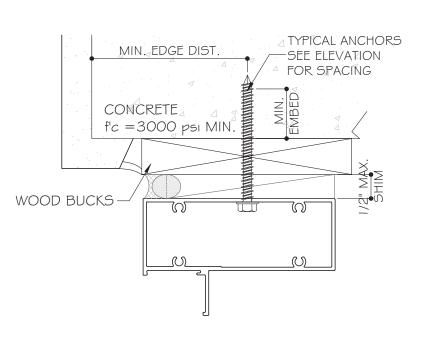
WOOD STRUCTURE / BUCK HEAD, SILL \$ JAMB: SG = 0.55 MIN. CONCRETE AT HEAD, SILL \$ JAMB: f'c = 3000 psi MIN. C-90 HOLLOW/FILLED BLOCK(JAMB ONLY): fm = 2000 psi MIN.

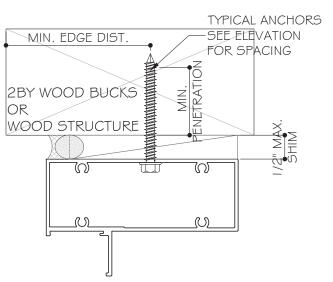
ALL FRAME CIBERS, JOINTS, MULLION SEMAS AND PERIMETER OF GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT (DOWSIL 775)

IX OR 2X WOOD BUCKS AND METAL STRUCTURES NOT BY EMC WINDOWS AND DOORS MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.





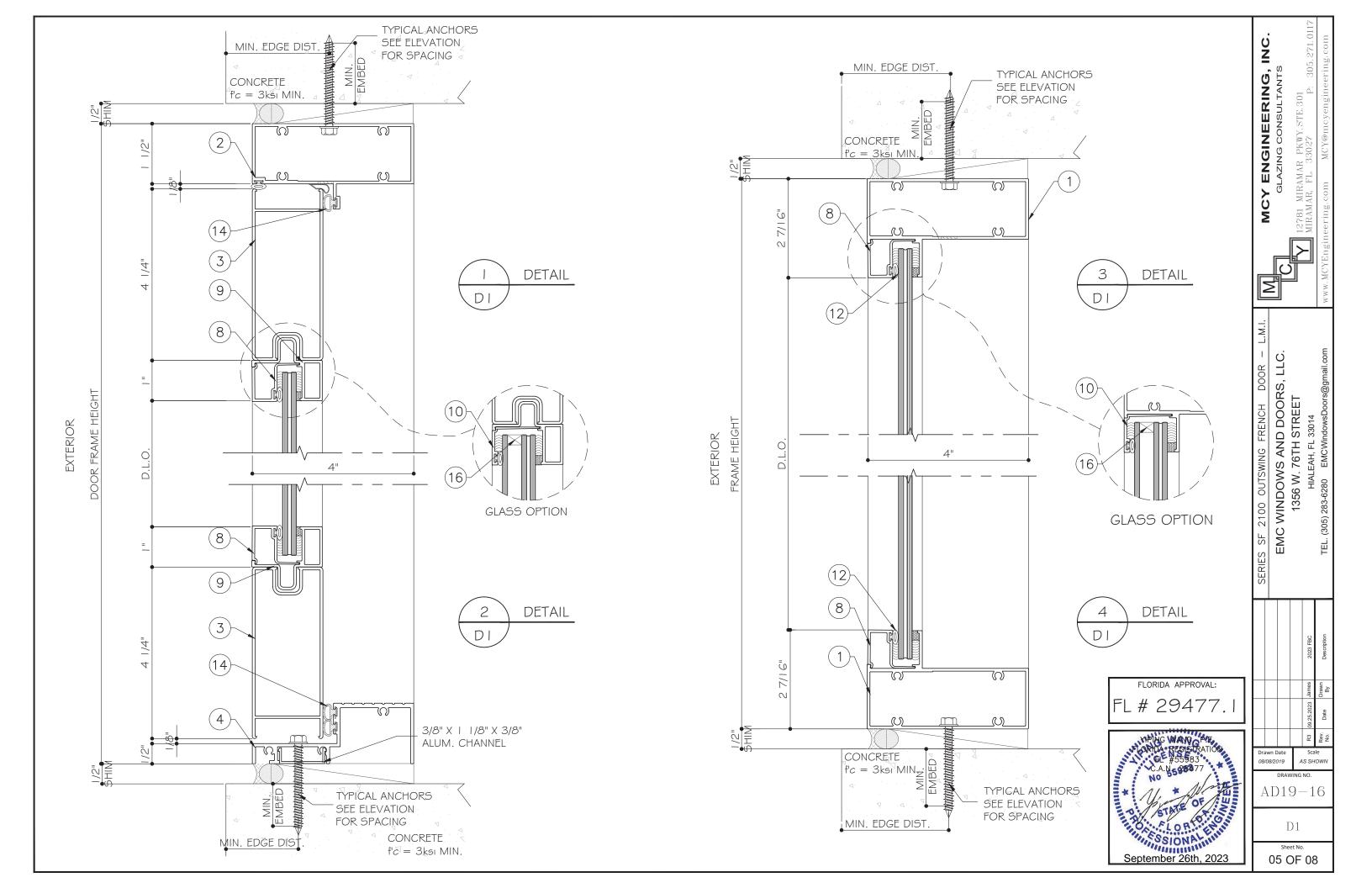


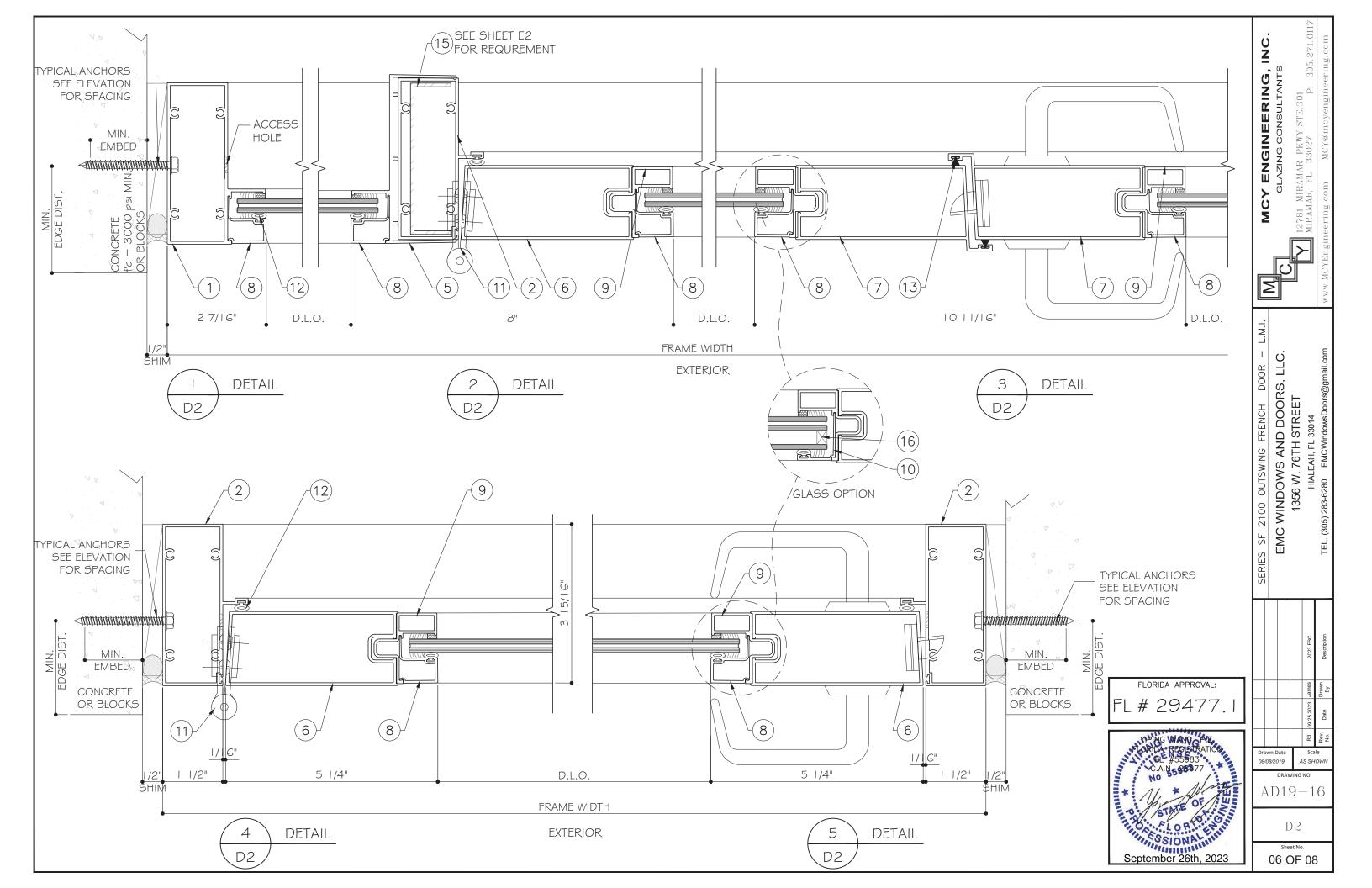


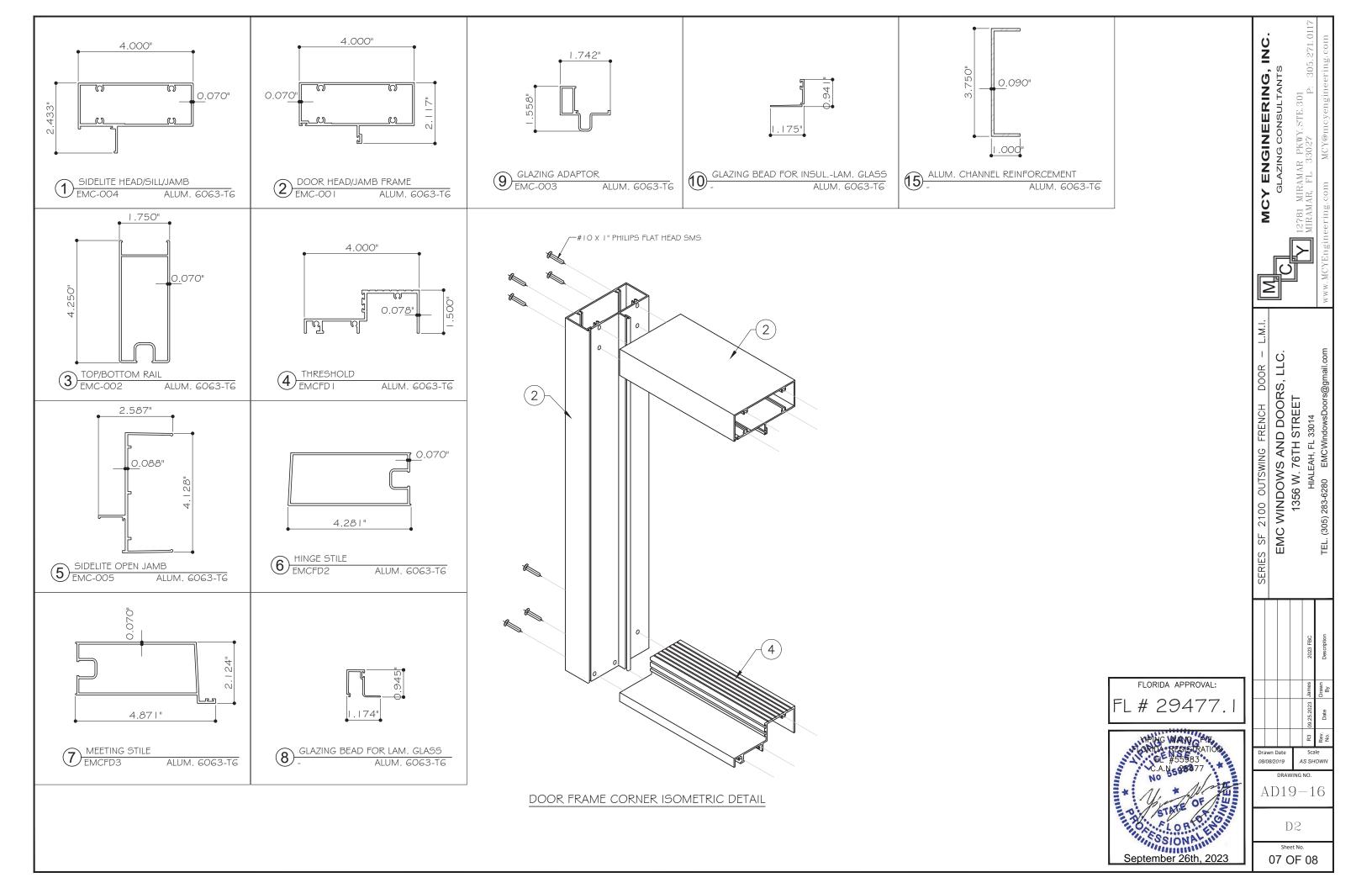


ENGINEERING, INCLAZING CONSULTANTS MCY WINDOWS AND DOORS, 1356 W. 76TH STREET MC

Α1







EM	PART	DESCRIPTION	MATERIAL	MANUF. / REMARKS
1	EMC-004	SIDELITE HEAD/SILL/JAMB FRAME	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC
2	EMC-001	DOOR HEAD/JAMB FRAME	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC
3	EMC-002	TOP BOTTOM RAIL	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC
4	EMCFD I	THRESHOLD	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC
5	EMC-005	SIDELITE OPEN JAMB	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC
6	EMCFD2	HINGE STILE	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC
7	EMCFD3	MEETING STILE	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC
8	-	GLAZING BEAD FOR LAMINATED GLASS	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC
9	-	GLAZING ADAPTOR	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC
0	-	GLAZING BEAD FOR INSULATED LAMINATED GLASS	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC
1 1	-	ALUMINUM BUTT HINGE	-	SULLIVAN AND ASSOCIATES
2	NO. 3252B	BULB VINYL AIR SEAL GASKET(BLACK)	-	MELTPOINT PLASTICS
3	-	WEATHER STRIPPING	-	-
4 - GASKET		GASKET	-	-
5	- I" X 3 3/4" X I" X 0.090" THK. ALUM. CHANNEL REIFORCEMENT		ALUM. 6063-T6	-
6	- CRL GRAY EDGETECH SUPER SPACER - GLASS SPACER		SILICONE FOAM	C.R. LAURENCE CO., INC.

LOCKS:

ACTIVE LEAF:

3 POINT LOCK BY 'SULLIVAN & ASSOCIATEDS' AT 42 1/4" FROM BOTTOM OF THE LEAF A 1" X 1 1/4" X 1 5/8" ALUM. 7-RIB FLUSH BOLT GUIDE WAS FASTENED TO INACTIVE LEAF LOCKSTILE WITH (2) #10 X 3/4" PFH SELF-DRILLING SMS

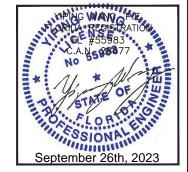
INACTIVE LEAF:

A SETS OF LEVER-ACITIVATED MANUAL SHOOT BOLTS BY 'SULLIVAN & ASSOCIATES' AT TOP/BOTTOM A 1" X 1 1/4" X 1 5/8" ALUM. 7-RIB FLUSH BOLT GUIDE WAS FASTENED TO INACTIVE LEAF LOCKSTILE WITH (2) #10 X 3/4" PFH SELF-DRILLING SMS

HINGES

(3) ALUM. HINGES BY 'SULLIVAN AND ASSOCIATES' AT 11 3/4" FROM TOP AND BOTTOM, 35" O.C. FASTEN TO FRAME WITH
(3) #12 X I" PFH SELF-DRILLING SMS FASTEN TO LEAF WITH
(3) #12 X I" PFH SELF-DRILLING SMS





ISO

08 OF 08

EMC WINDOWS AND DOORS, LLC. 1356 W. 76TH STREET